

3. (Amended) Pollutant neutralising system in accordance with claim 1,  
characterised in that the spheres each containing, over their entire surface, numerous  
excrescences of diamond point or similar type, are machined from limestone rock.

5. (Amended) Pollutant neutralising system in accordance with claim 1,  
characterised in that the spheres all containing, over their entire surface, numerous  
excrescences, for example of diamond point or similar type, are stamped as halves from a  
sheet of metal 0.4 mm thick and then welded together.

6. (Amended) Pollutant neutralising system characterised in that the pyrolytic heat  
cell for neutralising pollutants, containing means with a large exchange area with the said  
polluting gases, these means comprise a set of interchangeable electric heaters wound on  
themselves as flat spirals and stacked in an insulated chamber.

7. (Amended) Pollutant neutralising system in accordance with claim 1,  
characterised in that the exchange and pyrolysis surface of the pyrolytic heat cell comprise an  
assembly of hollow metal spheres furnished with excrescences filling its chamber.

8. (Amended) Pollutant neutralising system in accordance with claim 1,  
characterised in that the means presenting the exchange and pyrolysis surface of the heat cell  
comprise a set of mineral spheres furnished with excrescences, enclosed in a stainless steel  
net and put into the heat cell's chamber after the insertion of flat rings intended to fragment  
by impact large unburnt or partially burnt particles or HC, comprising a mesh of stainless  
steel swarf, preferably arranged ahead of the pyrolysis spheres.

Please add new Claims 9-16 as follows:

9. (New) Pollutant neutralising system in accordance with claim 2, characterised in  
that the spheres each containing, over their entire surface, numerous excrescences of  
diamond point or similar type, are machined from limestone rock.

*Ag. d. conf.*

10. (New) Pollutant neutralising system in accordance with claim 2, characterised in that the exchange and pyrolysis surface of the pyrolytic heat cell comprise an assembly of hollow metal spheres furnished with excrescences filling its chamber.

11. (New) Pollutant neutralising system in accordance with claim 3, characterised in that the exchange and pyrolysis surface of the pyrolytic heat cell comprise an assembly of hollow metal spheres furnished with excrescences filling its chamber.

12. (New) Pollutant neutralising system in accordance with claim 4, characterised in that the exchange and pyrolysis surface of the pyrolytic heat cell comprise an assembly of hollow metal spheres furnished with excrescences filling its chamber.

13. (New) Pollutant neutralising system in accordance with claim 5, characterised in that the exchange and pyrolysis surface of the pyrolytic heat cell comprise an assembly of hollow metal spheres furnished with excrescences filling its chamber.

14. (New) Pollutant neutralising system in accordance with claim 8, characterised in that the means presenting the exchange and pyrolysis surface of the heat cell comprise a set of mineral spheres furnished with excrescences, enclosed in a stainless steel net and put into the heat cell's chamber after the insertion of flat rings intended to fragment by impact large unburnt or partially burnt particles or HC, comprising a mesh of stainless steel swarf, preferably arranged ahead of the pyrolysis spheres.

15. (New) Pollutant neutralising system in accordance with claim 3, characterised in that the means presenting the exchange and pyrolysis surface of the heat cell comprise a set of mineral spheres furnished with excrescences, enclosed in a stainless steel net and put into the heat cell's chamber after the insertion of flat rings intended to fragment by impact large unburnt or partially burnt particles or HC, comprising a mesh of stainless steel swarf, preferably arranged ahead of the pyrolysis spheres.

16. (New) Pollutant neutralising system in accordance with claim 4, characterised in that the means presenting the exchange and pyrolysis surface of the heat cell comprise a set of mineral spheres furnished with excrescences, enclosed in a stainless steel net and put into the heat cell's chamber after the insertion of flat rings intended to fragment by impact large unburnt or partially burnt particles or HC, comprising a mesh of stainless steel swarf, preferably arranged ahead of the pyrolysis spheres.

IN THE ABSTRACT OF THE DISCLOSURE

Please cancel the original Abstract, page 14, in its entirety and insert therefor:

ABSTRACT OF THE DISCLOSURE

A system for neutralising polluting gases contained in particular in the exhaust gases of petrol or diesel internal combustion engines, or industrial smoke. The system includes modules assembled together or integrated, chosen in accordance with the quantity of pollutant gases and their nature. The assembled modules can include one or more of a hollow metal or mineral sphere-type pyrolysis heat cell module, containing excrescences forming a very large exchange area with polluting gases, or electric heaters, a particle and HC filter and polluting gas purification module, and a sound damping and gas temperature reduction module.